

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P432311

Luminaire Tested: **LAM4B108R609024DE010x1MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P432311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2009-969-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAM4B108R609024DE010x1MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 60 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 659.9 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.89
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

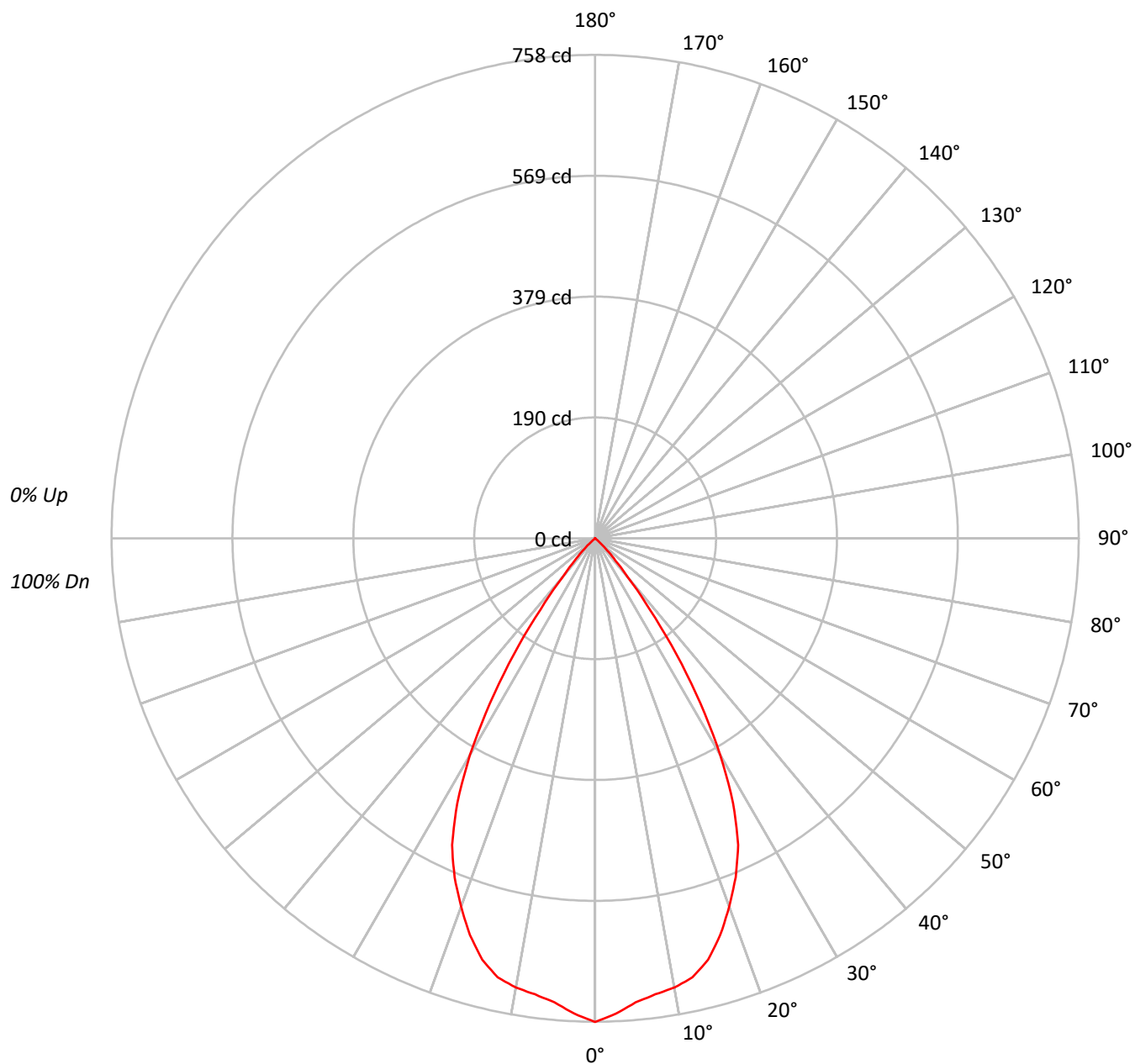
Input Watts (W): 11.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P432311

CATALOG NUMBER: LAM4B108R609024DE010x1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P432311

CATALOG NUMBER: LAM4B108R609024DE010x1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	111	109	106	111	109	107	105	105	103	102		101	100	99		98
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93
3	103	97	92	88	101	96	91	88	93	89	86		91	87	85		88
4	98	91	85	81	96	90	85	81	88	83	80		86	82	79		84
5	93	85	80	75	92	84	79	75	83	78	74		81	77	74		79
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71
8	80	71	65	61	79	71	65	61	70	65	61		69	64	61		68
9	77	67	62	58	76	67	61	58	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	374228
5°	361691
10°	358309
15°	349427
20°	322482
25°	288796
30°	223439
35°	133892
40°	51460
45°	18769
50°	768
55°	516
60°	592
65°	350
70°	433
75°	572
80°	852
85°	0



TEST NUMBER: P432311

CATALOG NUMBER: LAM4B108R609024DE010x1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	10.5
10°-20°	190.3	28.8
20°-30°	237.4	36.0
30°-40°	138.3	21.0
40°-50°	23.1	3.5
50°-60°	0.6	0.1
60°-70°	0.4	0.1
70°-80°	0.3	0.0
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	497.1	75.3
0°-40°	635.4	96.3
0°-60°	659.0	99.9
0°-90°	659.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	758	
5°	730	69
15°	684	190
25°	530	237
35°	222	138
45°	27	23
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P432311

CATALOG NUMBER: LAM4B108R609024DE010x1MMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	758.5
2.5°	746.0
5°	730.3
7.5°	721.3
10°	715.2
12.5°	705.2
15°	684.1
17.5°	652.3
20°	614.2
22.5°	575.4
25°	530.5
27.5°	468.2
30°	392.2
32.5°	307.2
35°	222.3
37.5°	140.2
40°	79.9
42.5°	46.8
45°	26.9
47.5°	9.3
50°	1.0
52.5°	0.6
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.3
67.5°	0.3
70°	0.3
72.5°	0.3
75°	0.3
77.5°	0.3
80°	0.3
82.5°	0.3
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)